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Joseph, K.M.; Jahns, D.W.; Nendick, M.D.; St. George, R.; Digital Avionics Systems Conference, 1998. Proceedings., 17th DASC. The AIAA/IEEE Volume 1, 31 Oct.-7 Nov. 1998 Page(s):E53/1 - E53/8 vol.1

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Relevance scale ☐ ☐ ☐ ☐ ☐1 [Managing server load in global memory systems](#)

Geoffrey M. Voelker, Hervé A. Jamrozik, Mary K. Vernon, Henry M. Levy, Edward D. Lazowska
 June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 25 Issue 1

Full text available: [pdf\(2.26 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New high-speed switched networks have reduced the latency of network page transfers significantly below that of local disk. This trend has led to the development of systems that use network-wide memory, or *global* memory, as a cache for virtual memory pages or file blocks. A crucial issue in the implementation of these global memory systems is the selection of the target nodes to receive replaced pages. Current systems use various forms of an approximate global LRU algorithm for making the ...

2 [Dynamic network reconfiguration support for mobile computers](#)

Jon Inouye, Jim Binkley, Jonathan Walpole
 September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: [pdf\(1.60 MB\)](#)
 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
3 [Reducing network latency using subpages in a global memory environment](#)

Hervé A. Jamrozik, Michael J. Feeley, Geoffrey M. Voelker, James Evans, Anna R. Karlin, Henry M. Levy, Mary K. Vernon
 September 1996 **Proceedings of the seventh international conference on Architectural support for programming languages and operating systems**, Volume 31 , 30 Issue 9 , 5


Full text available: [pdf\(1.19 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New high-speed networks greatly encourage the use of network memory as a cache for virtual memory and file pages, thereby reducing the need for disk access. Because pages are the fundamental transfer and access units in remote memory systems, page size is a key performance factor. Recently, page sizes of modern processors have been increasing in order to provide more TLB coverage and amortize disk access costs. Unfortunately, for high-speed networks, *small* transfers are needed to provide ...

4 Memory system behavior of Java programs: methodology and analysis

Jin-Soo Kim, Yarsun Hsu

June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 28 Issue 1

Full text available:  [pdf\(1.08 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper studies the memory system behavior of Java programs by analyzing memory reference traces of several SPECjvm98 applications running with a Just-In-Time (JIT) compiler. Trace information is collected by an exception-based tracing tool called JTRACE, without any instrumentation to the Java programs or the JIT compiler. First, we find that the overall cache miss ratio is increased due to garbage collection, which suffers from higher cache misses compared to the application. ...

5 Application-controlled physical memory using external page-cache management

Kieran Harty, David R. Cheriton

September 1992 **ACM SIGPLAN Notices , Proceedings of the fifth international conference on Architectural support for programming languages and operating systems**, Volume 27 Issue 9


Full text available:  [pdf\(1.40 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Reducing cache misses using hardware and software page placement

Timothy Sherwood, Brad Calder, Joel Emer

May 1999 **Proceedings of the 13th international conference on Supercomputing**


Full text available:  [pdf\(1.50 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

8 Coyote: a system for constructing fine-grain configurable communication services

Nina T. Bhatti, Matti A. Hiltunen, Richard D. Schlichting, Wanda Chiu

November 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 4

Full text available:  [pdf\(290.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Communication-oriented abstractions such as atomic multicast, group RPC, and protocols for location-independent mobile computing can simplify the development of complex applications built on distributed systems. This article describes Coyote, a system that supports the construction of highly modular and configurable versions of such abstractions. Coyote extends the notion of protocol objects and hierarchical composition found in existing systems with support for finer-grain microprotocol ob ...

Keywords: x-kernal, configurable sevicees, customization, event handlers, event-driven execution, membership, microprotocols, mobile computing, modularity, multicast, protocols, remote procedure call

9 Delayed Internet routing convergence

Craig Labovitz, Abha Ahuja, Abhijit Bose, Farnam Jahanian

June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3

Full text available:  [pdf\(220.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper examines the latency in Internet path failure, failover, and repair due to the convergence properties of interdomain routing. Unlike circuit-switched paths which exhibit failover on the order of milliseconds, our experimental measurements show that interdomain routers in the packet-switched Internet may take tens of minutes to reach a consistent view of the network topology after a fault. These delays stem temporary routing table fluctuations formed during the operation of the Bo ...

Keywords: Internet, failure analysis, network reliability, routing

10 A system for constructing configurable high-level protocols

Nina T. Bhatti, Richard D. Schlichting

October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 25 Issue 4


Full text available:  [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New distributed computing applications are driving the development of more specialized protocols, as well as demanding greater control over the communication substrate. Here, a network subsystem that supports modular, fine-grained construction of high-level protocols such as atomic multicast and group RPC is described. The approach is based on extending the standard hierarchical model of the x-kernel with composite protocols in which micro-protocol objects are composed within a standard r ...

11 Cellular disco: resource management using virtual clusters on shared-memory multiprocessors

Kinshuk Govil, Dan Teodosiu, Yongqiang Huang, Mendel Rosenblum

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

Full text available:  [pdf\(267.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Despite the fact that large-scale shared-memory multiprocessors have been commercially available for several years, system software that fully utilizes all their features is still not available, mostly due to the complexity and cost of making the required changes to the operating system. A recently proposed approach, called Disco, substantially reduces this development cost by using a virtual machine monitor that leverages the existing operating system technology. In this paper we present a ...

Keywords: fault containment, resource managment, scalable multiprocessors, virtual machines

12 Cellular Disco: resource management using virtual clusters on shared-memory multiprocessors

Kinshuk Govil, Dan Teodosiu, Yongqiang Huang, Mendel Rosenblum

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

Full text available:  [pdf\(1.93 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Despite the fact that large-scale shared-memory multiprocessors have been commercially available for several years, system software that fully utilizes all their features is still not available, mostly due to the complexity and cost of making the required changes to the operating system. A recently proposed approach, called Disco, substantially reduces this development cost by using a virtual machine monitor that leverages the existing operating system technology. In this paper we present a syste ...

13 PoliPer: policies for mobile and pervasive environments

Luis Veiga, Paulo Ferreira

October 2004 **Proceedings of the 3rd workshop on Adaptive and reflective middleware**

Full text available:  [pdf\(269.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The need for sharing is well known in a large number of distributed applications. These applications are difficult to develop either for fully wired or mobile wireless networks. Such difficulty arises not only because of slow and unreliable connections in such networks but also due to the great diversity of usage scenarios (even for a single application). Currently, programmers are forced to deal with system-level issues such as replication, consistency, security, etc.

PoliPer is a mid ...

14 Atlas: a case study in building a web-based learning environment using aspect-oriented programming

Mik Kersten, Gail C. Murphy

October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 34 Issue 10

Full text available:  [pdf\(2.30 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Advanced Teaching and Learning Academic Server (Atlas) is a software system that supports web-based learning. Students can register for courses, and can navigate through personalized views of course material. Atlas has been built according to Sun Microsystem's Java™ Servlet specification using Xerox PARC's aspect-oriented programming support called Aspect™. Since aspect-oriented programming is still in its infancy, little experience with employing this paradigm is currently ...

Keywords: aspect-oriented programming, distributed systems, software engineering practices, web-based applications

15 A compositional framework for access control policies enforcement

François Siewe, Antonio Cau, Hussein Zedan

October 2003 **Proceedings of the 2003 ACM workshop on Formal methods in security engineering**

Full text available:  [pdf\(972.17 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Despite considerable number of work on authorization models, enforcing multiple policies is still a challenge in order to achieve the level of security required in many real-world systems. Moreover current approaches address security settings independently, and their

incorporation into systems development lifecycle is not well understood. This paper presents a formal model for the specification of access control policies. The approach can handle the enforcement of multiple policies through pol ...

Keywords: access control, authorization, delegation, policy composition

16 Dynamic tracking of page miss ratio curve for memory management

Pin Zhou, Vivek Pandey, Jagadeesan Sundaresan, Anand Raghuraman, Yuanyuan Zhou, Sanjeev Kumar

October 2004 **Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**, Volume 38 , 39 , 32 Issue 5 , 11 , 5

Full text available:  [pdf\(281.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Memory can be efficiently utilized if the dynamic memory demands of applications can be determined and analyzed at run-time. The page miss ratio curve(MRC), i.e. page miss rate vs. memory size curve, is a good performance-directed metric to serve this purpose. However, dynamically tracking MRC at run time is challenging in systems with virtual memory because not every memory reference passes through the operating system (OS). This paper proposes two methods to dynamically track MRC of application ...

Keywords: memory management, power management, resource allocation

17 Understanding BGP misconfiguration

Ratul Mahajan, David Wetherall, Tom Anderson

August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 32 Issue 4

Full text available:  [pdf\(312.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

It is well-known that simple, accidental BGP configuration errors can disrupt Internet connectivity. Yet little is known about the frequency of misconfiguration or its causes, except for the few spectacular incidents of widespread outages. In this paper, we present the first quantitative study of BGP misconfiguration. Over a three week period, we analyzed routing table advertisements from 23 vantage points across the Internet backbone to detect incidents of misconfiguration. For each incident we ...

18 Inoculating software for survivability

Anup K. Ghosh, Jeffrey M. Voas


July 1999 **Communications of the ACM**, Volume 42 Issue 7

Full text available:  [pdf\(214.10 KB\)](#)  [html\(37.50 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Compiler-directed page coloring for multiprocessors

Edouard Bugnion, Jennifer M. Anderson, Todd C. Mowry, Mendel Rosenblum, Monica S. Lam

September 1996 **Proceedings of the seventh international conference on Architectural support for programming languages and operating systems**, Volume 31 , 30 Issue 9 , 5

Full text available:  [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a new technique, *compiler-directed page coloring*, that eliminates



conflict misses in multiprocessor applications. It enables applications to make better use of the increased aggregate cache size available in a multiprocessor. This technique uses the compiler's knowledge of the access patterns of the parallelized applications to direct the operating system's virtual memory page mapping strategy. We demonstrate that this technique can lead to significant performance impr ...

20 A generic, peer-to-peer repository for distributed configuration management

André van der Hoek, Dennis Heimbigner, Alexander L. Wolf

May 1996 **Proceedings of the 18th international conference on Software engineering**

Full text available:

 pdf (1.05 MB)
 Publisher Site

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Distributed configuration management is intended to support the activities of projects that span multiple sites. NUCM (Network-Unified Configuration Management) is a testbed that we are developing to help us explore the issues of distributed configuration management. NUCM separates configuration management repositories (i.e. the stores for versions of artifacts) from configuration management policies (i.e. the procedures by which the versions are manipulated) by providing a generic model of a di ...



Keywords: NUCM, Network-Unified Configuration Management, application program interfaces, artifact versions, change sets, check-in/check-out, configuration management, configuration management policies, configuration management repositories, distributed configuration management, distributed databases, generic peer-to-peer repository, multi-site projects, programmatic interface, repository distribution mechanism, software management

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